

OM of: US-09-126-945B-2\_COPY\_236\_243 to: EST:

**out\_format : pfs**

Date: Sep 7, 2001 6:00 PM

About: Results were produced by the Gencore software, version 4.5  
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**Command line parameters:**

```
-MODEL=frame+_p2n.model -DEV=x17h
```

```
-v=/cgn2_1/USPIO_spool/0509126945/runat_07092001_152108_3642/app-query.fasta.1.487
-DB-FST -OEXT-fastq -QUERY-ol 24 -CDD-4 500 -CDD-5 500
```

```

-OB-ESI -GFM1-ldscdp -SUFF1X=011g.FSL -GAPOP=4.500 -GAPEXT=0.050
-MINMATCH=0.100 -IOPCI=0.000 -IOPEXT=0.000 -OCAPOB=4.500

```

```

***** 0:100 -DOFCE=0:000 -VGAPOP=4:300
-OGAPEXT=0.050 -XGAPOP=60.000 -EGAPOP=6.000

```

-FGAPEXT=7.000	-YGAPOP=60.000	-YGAPEXT=60.000	-DELOP=6.000
----------------	----------------	-----------------	--------------

```
-DELEXT=7.000 -START=1 -MATRIX=oligo -TRANS=human40.cd1 -LIST=45
```

-DOCCALIGN=200 -THR\_SCORE=quality -THR\_MIN=1 -ALIGN=15

MODE=LOCAL -OUTFMT=pfs -NORM=ext -MINLEN=0 -MAXLEN=20000000000

```
-USER=US09126945_@CGN1_1_4183 -NCPU=6 -ICPU=3 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -NO DEV -STAT -ENDTAG=1
```

```
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -NO_XLPRX -WAIT -THREADS=1
```

Search information block:

Query: US-09-126-945B-2

Query length: 8

Database: E

Database sequences: 10228115

Database Length: 431459454

Search time (Sec): 1300.560000

**WARN:** XGAPOP and YGAPOP must be

WARN: XGAPEXT and YGAPEXT must be equal. Assuming YGAPEXT-XGAPEXT=600

[illegible]

score\_list:

[illegible][illegible]

```

seq.documentation_block: 539 bp mRNA EST 15-SEP-2000
LOCUS BF757615
DEFINITION 212102 MARC 2B0V Bos taurus cDNA 5', mRNA sequence.
ACCESSION BF757615
VERSION BF757615.1 GI:10171607
KEYWORDS
EST.
EST.
COW.
SOURCE

```

ORGANISM      BOS taurus  
Eukaryota: Metazoa: Chordata: Craniata: Euteleostomi:  
Mammalia: Eutheria: Cetartiodactyla: Ruminantia: Pecora: Bovidae:  
Bovidae: Bovinae: Bos.  
1 (bases 1 to 539)      Cacc 3.0      100.00%      100.00%  
REFERENCE  
Saitoh et al. 1997

AUTHORS  
 SMITH, I. F. D., CASSELL, C., STONE, R. T., HEDCOCK, M. P., GROSSE, M. M.,  
 BEMNETT, G. A., FAIRFAXING, S. C., FLEKING, B. A., ROHRER, G. A., LAEGRELD,  
 M. W. and KEETE, J. M.  
 TITLE  
 Design and use of four pooled tissue normalized cDNA libraries for  
 EST discovery in cattle  
 JOURNAL  
 Unpublished (2000)  
 COMMENT  
 Contact: Smith PPL  
 USDA, ARS, NC Meat Animal Research Center

Dr. Mark S. Reid, M.D., MSc, US MRCI, National Research Center,  
PO Box 466, Clatsop Center, NE 68933-0166, USA  
Tel.: 402 762 4396  
Fax: 402 762 4390  
Email: smreid@mail.mrci.usda.gov  
String: multiemail, marc.usda.gov  
Bases called and alt trimmed with phred  
v0.98904.e. Vector identified by cross\_match with the -m5score 18  
and -mismatch 12 options.

```

PCR PRIMERS
FORWARD: AGGAAACGCTGTGACCAT
REVERSE: GTTTCCTGCTGACACG
SEQUENCE:
Place: 64
Row: 0
Column: 13
Seq primer: ATTATGGTACACCTCAT.
Location/Qualifiers
1..339
/organism="Bos taurus"

```

```

/ab_xref=taxon:9913
/clone_id=VARC_280V
/tissue_type=pooled
/lab_host=DH10B
/notice=Vector: PCWV_SPORT6; Site_1: XbaI; Site_2: XhoI;
Library made from pooled tissue from testis, thymus,
semilemnosus muscle, longissimus muscle, pancreas,
adrenal, and endometrium.*

```

BASE COUNT	98 a	168 c	193 g	80 t
ORIGIN				
alignment_scores:				
Quality:	8.00			8
Ratio:	1.000			Gaps: 0
Percent Similarity:	100.000			Percent Identity: 100.000

```

Alignment_block:
US-09-126-945B-2.COPY_236-243 x BE757615 ..
Align seg 1/1 to: BE757615 from: 1 to: 539
    1 ThrtAsPserCivnaIAsPserSer 8
|||||
|||||
|||||

```

458 ACGGACAGCGAGTGGACTGTCC 481  
seq\_name: gb\_est47:AW101855  
seq\_documentation\_block:

2 AspSerGluValAspSerSer E

seq\_name: gb\_est97:BG159088

```

seq_documentation_block: 549 bp mRNA EST 06-FEB-2001
LOCUS BC159088 RH12.17_F11.D1.A003 Rhizome2 (RH122) Sorghum prolinquum cDNA, mRNA
DEFINITION RH12.17_F11.D1.A003 Rhizome2 (RH122) Sorghum prolinquum cDNA, mRNA
ACCESSION BC159088.1 GI:12692752
VERSION BC159088.1
KEYWORDS EST.
SOURCE Sorghum prolinquum.
ORGANISM Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Chlorophyta; Magnoliopsida; Liliopsida; Poales; Poaceae; PACC
clade; Panicoideae; Andropogoneae; Sorghum.
REFERENCE 1.
AUTHORS Cordoner-Protet,M.-M., Gingle,A., Paterson,A., Sudana,M. and Prat
L.H.
JOURNAL An EST database from Sorghum: Sorghum prolinquum rhizomes
COMMENT Unpublished (2000)
CONTACT: Cordoner-Protet MM
DEPARTMENT Department of Botany
INSTITUTION University of Georgia
PLANT SCIENCE BUILDING, Rm. 2502, Athens, GA 30602-7271, USA
TEL: 706 542 1860
FAX: 706 542 1805
EMAIL: mmp@atcuga.edu
SEQ PRIMER: JEN REV
HIGH QUALITY sequence stop: 486
POLY-A-NO.
FEATURES
source
1..549
location/Qualifiers
/db_arnam="sorghum prolinquum"
/db_xref="taxon:132711"
/clone_lib="Rhizome2 (RH122)"
/notes="Organ: Vector: pluscript II from Lambda
ZAP II; Site_1: XhoI; Site_2: EcoRI; The library was made
from poly A RNA in the cloning vector Lambda ZAP II.
Cloned by Dr. Minoru Ko, Mayo State Univ. Library
of Molecular Biology and prepared by mass excision."
BASE COUNT 130 a 133 c 156 g 130 t
ORIGIN
1
Alignment_scores:
Quality: 7.00 Length: 7
Percent similarity: 100.000 Percent identity: 100.000
alignment_block:
US-09-126-945b-2_COPY_236.243 x BC159088 ..
Align seq 1/1 to: BC159088 from: 1 to: 549
1 ThrApsBcrhVtAlaApsBcr 7
|||||
523 ACTGACGAGGAGGACTGCTC 543
seq_name: gb_cet16:A1119983
seq_documentation_block: 555 bp mRNA EST 02-SEP-1998
LOCUS A1119983.1 Sorghum prolinquum muscle cDNA, clone
DEFINITION IMAGE:119984.5.4 limit to gb:104982.cds1 INDUCTIONAL PROTEIN,
HEAT/STRESS/ELFAL MUSCLE ISOFORM (HUMAN); gb:U27215 Mus musculus
adenine nucleotide translocase-1 (MUSST); mRNA sequence.
ACCESSION A1119983
VERSION A1119983.1 GI:3520307
KEYWORDS EST.
SOURCE Mus musculus.
ORGANISM Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 555)
REFERENCE 1.
AUTHORS Gabel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,

```

```

TITLE
JOURNAL
COMMENT
Contact: Maria M/Mouse EST Project
Masnu-HHMI Mouse EST Project
Masnu-HHMI Mouse EST Project of Medicine
4444 Forest Park Parkway, Box 6501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@wustl.edu
This clone is available royalty-free through DLM; contact the
IMAGE Consortium (info@image.dlm.gov) for further information.
M01310700 - 2813 rev7 bp from AmerSham
High quality sequence stop: 258.
FEATURES
source
1..555
location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/db_xref="taxon:138984"
/clone_lib="Source:mammary_gland_NBMNC"
/sex="male"
/tissue_type="mammary gland"
/dev_stage="4 weeks"
/lab_host="DH10B"
/notes="Organ: mammary gland; Vector: pYT13-Pac (Pharmacia)
with a modified polylinker; Site_1: Not I; Site_2: Eco
RI; Site_3: Eco RI; The cDNA was primed with a Not I -
oligo(dT)
primer (5' end cDNA was primed with a Not I -
oligo(dT)
T 3'); double-stranded cDNA was ligated to Eco RI
adaptors (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of the modified pYT13 vector.
RNA provided by Dr. Minoru Ko, Mayo State Univ. Library
of Molecular Biology and normalized by Benito Soares and M. Felina
Bomado."
BASE COUNT 155 a 101 c 151 g 147 t 1 others
ORIGIN
1
Alignment_scores:
Quality: 7.00 Length: 7
Percent similarity: 100.000 Percent identity: 100.000
alignment_block:
US-09-126-945b-2_COPY_236.243 x A1119983/rev ..
Align seq 1/1 to reverse of: A1119983 from: 1 to: 555
2 AapScrlvAlaApsBcrSer 8
|||||
50 GACCTCCGAGACGACCTCT 30
seq_name: gb_gsa12:A0510431
seq_documentation_block: 563 bp DNA GSS 04-MAY-1999
LOCUS A0510431.1 Sorghum prolinquum muscle cDNA, clone
DEFINITION IMAGE:119984.5.4 limit to gb:104982.cds1 INDUCTIONAL PROTEIN,
HEAT/STRESS/ELFAL MUSCLE ISOFORM (HUMAN); gb:U27215 Mus musculus
adenine nucleotide translocase-1 (MUSST); mRNA sequence.
ACCESSION A0510431
VERSION A0510431.1 GI:473035
KEYWORDS GSS.
SOURCE Sorghum prolinquum.
ORGANISM Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Chlorophyta; Magnoliopsida; Liliopsida; Poales; Poaceae;
Euphorbiaceae; Oryzae.
1 (bases 1 to 563)
REFERENCE 1.
AUTHORS Wing,R.A. and Dean,R.A.

```



/note="Organ: lymph. Vector: pCMV-SPORT6; Site\_1: NotI; Site\_2: SalI; Cloned unidirectionally; oligo-dT primed. Average insert size 1.867 kb. Library enriched for full-length clones and constructed by Life Technologies. Note: This is NIH-MDC library. 1 others

BASE COUNT 215 a 229 c 281 g 191 t

ORIGIN

alignment\_scores:  
Quality: 7.00 Length: 7  
Ratio: 1.000 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
us-09-126-945b-2\_COPY\_236\_243 x BF795883 ..

Align seg 1/1 to: BF795883 from: 1 to: 917

2 SerGIuValaIapSerSer 8  
711 GACTCGAAGTCAATTCCT 731

seq\_name: gb\_cesl81:BF978811

seq\_documentation\_block:  
LOCUS BF978811 77 bp mRNA EST 04-OCT-2000

DEFINITION Drosophila melanogaster adult testis library Drosophila melanogaster cDNA clone D98J0805', mRNA sequence.

ACCESSION BF978811  
KEYWORDS EST.

SOURCE  
ORGANISM

fruit fly.  
Drosophila melanogaster.  
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Diptera; Ephyra; Endopterygota; Diptera; Brachycera; Muscophora; Muscophora; Drosophilidae; Drosophila.

1 (bases 1 to 77)  
Andrews, J., Bouffard, G. and Oliver, B.

Drosophila melanogaster testis expressed sequence tags  
Unpublished (1999)

CONTACT: Brian Oliver  
Laboratory of Cellular and Developmental Biology

NIHDK, National Institutes of Health  
6601 Rockledge Drive, Bethesda, MD 20892 USA  
Fax: (301) 496 5539

Email: oliverb@helix.nih.gov,  
http://www.niddk.nih.gov/Intram/people/boliver.htm

Tissue isolation and library construction performed at the National Institute of Diabetes and Digestive and Kidney Diseases, NIH (see http://www.niddk.nih.gov/Intram/people/boliver.htm). DNA sequencing and analyses performed by National Institutes of Health Intramural Research Program (NIDDK) (http://www.nidsc.nih.gov).

Plasmid: 83 cown b column: 08  
Seq primer: M13RP1 reverse primer (ABT).

Location/Qualifiers

1..77  
/organism="Drosophila melanogaster"

/strain="y1 w66c11/y"

/clone="b83b08"

/clone.lib="Drosophila melanogaster adult testis library"

/dev\_stage="1-5 day adult"

/note="Organ: testis; Vector: pBluescript SK (Stratagene); Site\_1: EcoR; Site\_2: Xho I; Tissues dissected from 1-5 day old males. The library was constructed as a single round of Poly(A)+ selection using Oligo(dA) (Qiagen) cDNA library constructed using Stratagene ZAP-cDNA synthesis kit. Oligo dT-primed, size fractionated 1-6 kb, and directionally cloned at EcoRI and XhoI in Uni-ZAP XR.

Following a single round of amplification pBluescript SK phagemids were mass excised. A distribution channel for clones is being sought, but not currently available. Requests for clones cannot be honored.\*

BASE COUNT 19 a 22 c 15 g 21 t

ORIGIN

alignment\_scores:  
Quality: 6.00 Length: 6  
Ratio: 1.000 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
us-09-126-945b-2\_COPY\_236\_243 x BF978811/rev ..

Align seg 1/1 to reverse of: BF978811 from: 1 to: 77

3 SerGIuValaIapSerSer 8  
45 TCGCAAGTCAATTCCT 28

seq\_name: gb\_cesl11:231199

seq\_documentation\_block:  
LOCUS 231199 143 bp mRNA EST 24-JAN-1995

DEFINITION NM025752 Mouse testis T-ZAP Mus musculus cDNA, mRNA sequence.

ACCESSION 231199  
KEYWORDS EST.

SOURCE  
ORGANISM

Mus musculus.  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.

1 (bases 1 to 143)  
Ivan, L., Liu, J.-G. and Hoog, C.

JOURNAL  
MEDLINE  
Identified a large number of male germ cell-specific sequence tags

CONTACT: C. Hoog  
Dept. of Molecular Genetics

Karolinska Institutet  
Box 60400, 10401 Stockholm, SWEDEN.

Location/Qualifiers

1..143  
/organism="Mus musculus"

/strain="CBA"

/clone.lib="Mouse testis T-ZAP"

/note="Testis from adult mouse"

BASE COUNT 33 a 39 c 41 t

ORIGIN

alignment\_scores:  
Quality: 6.00 Length: 6  
Ratio: 1.000 Gaps: 0  
Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
us-09-126-945b-2\_COPY\_236\_243 x 231199 ..

Align seg 1/1 to: 231199 from: 1 to: 143

3 SerGIuValaIapSerSer 8  
58 AGGCAAGTCAATTCCT 75

seq\_name: gb\_cesl81:BF938486

seq\_documentation\_block:  
LOCUS BF938486 163 bp mRNA EST 02-OCT-2000



TITLE  
JOURNAL  
COMMENT

Yano, R., Yasunishi, A., Yokota, T., Yoshida, K., Yoshiki, A., Yoshimura, M., and Hayashizaki, Y. (2000) *Genome Science* 1, 1-10.

Riken Mouse ESRR (Kondo, H., et al.)  
Contact: Yoshihide Hayashizaki  
Genome Exploration Research Group, Life Science Tsukuba Center,  
Genome Science Laboratory  
The Institute of Physical and Chemical Research (RIKEN), Genomic  
Sciences Center  
3-1-1 Koyada, Tsukuba, Ibaraki 305-0074, Japan  
Tel.: +81-288-36-9013

```

seq_documentation_block:
LOCUS      AV057324      187 bp      mRNA      EST      23-JUN-1999
DEFINITION AV057324 Mus musculus pancreas C57BL/6J adult Mus musculus cDNA
ACCESSION  AF057323
VERSION    AV057324.1 GI:5157071
KEYWORDS   EST
SOURCE     mouse.
ORGANISM   Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE  1
  AUTHORS  Caroline P., Shibata,K., Ozawa,Y., Kono,H., Itoh,M., Aizawa,K.,
  Akhira,S., Akiyama,J., Fukuda,S., Fukunishi,Y., Funayama,T., Hara,
  A., Hayatsu,N., Horii,F., Ishikawa,T., Itoh,M., Izawa,M., Kawai,T.,
  Kikuchi,N., Kojima,Y., Matsuyama,T., Nitsuma,H., Oda,H., Owa,C.,
  Sato,K., Shibata,Y., Shigemoto,Y., Shiraki,T., Sogabe,Y., Sugahara
  Y., Suzuki,H., Suzuki,H., Tatemura,T., Tokota,T., Yoshino,M.,
  Watanabe,S., Yagame,M., Yamamura,T., Yokota,T., Yoshino,M.,
  Yumoto,M., Yoshida,M., Yoshitake,Y. and Hayashizaki,Y.
  RIKEN Mouse ESTs
  RIKEN Mouse ESTs
  Contact: Chie Owa
  Genom Science Laboratory
  RIKEN
  5-1-1 Koyadai, Tsukuba, Ibaraki 305-0074, Japan
  Tel: 81-298-36-9100
  Fax: 81-298-36-9098
  Email: genome-reserc.riken.go.jp
  Thermolabilization and thermostabilization of thermolabile enzymes by
  trehalose and its application for the synthesis of full length cDNA
  (Proc. Natl. Acad. Sci. U.S.A. 95(2):520-524 (1998))
  Transcriptional sequencing: A method for DNA sequencing using RNA
  template (Proc. Natl. Acad. Sci. U.S.A. 95(7):3832-3867 (1998))
  Please visit our web site (http://genome.rdc.riken.go.jp) for
  further details.
FEATURES
  source
    location/Qualifiers
      1..187
        /organism="Mus musculus"
        /strain="C57BL/6J"
        /db_xref="taxon:10090"
        /accession="AF057323"
        /clone_1lb="Mus musculus pancreas C57BL/6J adult"
        /sex="male"
        /tissue_type="pancreas"
        /dev_stage="adult"
BASE COUNT      31 a      49 c      39 g      68 t
ORIGIN
alignment_scores:
  Quality: 6.00      Length: 6
  Ratio: 1.000      Gaps: 0
  Percent Similarity: 100.000      Percent Identity: 100.000
alignment_block:
  US-09-126-945b-2_copy_236_243 x AV057324
Align seq 1/1 to: AV057324 from: 1 to: 187
3 seqIdUnalignedSeq 8
|||||
1 TCGAGTCGATCTACT 18

```